Artificial Intelligence (AI) has been at the forefront of computer science research for over 50 years. In recent years a confluence of breakthroughs in hardware capability and insights into algorithm design have made the early promise of intelligent machines a reality. AI is one of the fastest growing areas of ICT industry and research. It has the potential to positively transform every aspect of all our lives, from smart cities and autonomous vehicles, through to improved healthcare services and low-carbon economies.

This innovative online M.Sc. in Artificial Intelligence will equip the student with state-of-the-art knowledge and practical skills that are increasingly sought after in industry today.

The fees for this programme are co-funded by Technology Ireland ICT Skillnet.

Course Level: NFQ Level 9.

Duration: 24 months, part-time

Entry Requirements:
This MSc is targeted at people currently working in industry who wish to significantly deepen their computing skills through a specialisation in Artificial Intelligence. Candidates must have a strong 2.2 level 8 computer science degree or a strong 2.2 level 8 science / engineering degree that provides extensive training in computing.

Candidates who do not meet this requirement but are deemed by the programme director to have reached an equivalent standard will also be considered.

Candidates must be EU/EEA nationals or working in Ireland on an Irish Employment Permit

Fees:
The fees for this programme will be co-funded by Technology Ireland ICT Skillnet.

To Apply:
Send your CV showing your qualifications and experience to info@ictskillnet.ie. Candidates are encouraged to apply as early as possible. More information at www.ictskillnet.ie

Closing Date: 23rd July 2019
M.Sc. in Computer Science - Artificial Intelligence - Online

Why study this programme?

This is a distinctive programme taught by an internationally renowned, interdisciplinary team of NUI Galway experts in the field, many of whom are researchers at the Insight Centre for Data Analytics. Students also have the opportunity to choose from several optional online modules on offer from our partner in this programme Dublin City University (DCU).

The programme is taught over 2 years and is delivered completely online using state-of-the-art technologies and techniques to support the virtual classroom. Students are expected to attend classes on campus at most one day per semester.

Programme outline

The online M.Sc. in Computer Science - Artificial Intelligence is a 2-year 90 ECTS course comprising

• 12 taught modules in core AI topics (60 ECTS)
• A substantial capstone project (30 ECTS).

Modules include: Machine Learning; Deep Learning; Natural Language Processing; Programming and Tools for Artificial Intelligence; Tools and Techniques for Large Scale Data Analytics; Research Topics in Artificial Intelligence; Reinforcement Learning and Multi-Agent Systems; Data Visualisation; Knowledge Representation and Statistical Relational Learning; Information Retrieval; Ethics in Artificial Intelligence;

DCU options available to NUI Students: Computer Vision; Statistical Machine Translation; Mechanics of Search.

From semester II onwards, students work on individual projects and submit them in August. Projects may have a research or applied focus.

“Artificial Intelligence is the key behind the revolution that is taking place both in ICT and automotive. In automotive it is the enabler that will bring us from driving assistance functions to fully autonomous driving. Graduates with the skills to apply the latest Artificial Intelligence techniques and push the boundaries are highly sought after.”

Dr. Catherine Enright, Vision Fusion Software Team Manager with Valeo Vision Systems